



"CONFIRM"

Chairman of the technical expert
commission of Shurtan GCC LLC

_____ U. Isaev

"__" _____ 2020.

Reg. No 050/

TECHNICAL ASSIGNMENT

for the supply of dimethyl disulfide

for the needs of Shurtan gas chemical complex LLC

1. GENERAL INFORMATION

1.1. Name
Dimethyl disulfide C ₂ H ₆ S ₂
1.2. Basis and purpose of purchasing goods
Basis: Applications for purchasing of dimethyl disulfide for 2021. Purpose: For the formation of a protective sulfide film on the inner surfaces of the coil, preventing the polymerization processes and condensation of intermediate pyrolysis products, increasing the run (operating cycle) of pyrolysis furnaces.
1.3 Information about novelty (year of production/manufacture of goods)
The goods must be new, produced no more than 2 months before the date of shipment.

2. SCOPE OF APPLICATION

Dimethyl disulfide (DMDS) C₂H₆S₂ is used to reduce coke formation and coke deposition on the walls of pyrolysis furnace coils.

3. OPERATING CONDITIONS

3.1 Basic operating conditions

According to the technical documentation.

4. TECHNICAL REQUIREMENTS

4.1. Basic technical requirements

CAS	#	624-92-0
Chemical name	-	Dimethyl disulfide (DMDS)
Molecular formula	-	C ₂ H ₆ S ₂
Structure	-	CH ₃ -S-S-CH ₃
Chemical purity, % wt.	-	Not less than 99
Initial boiling point, °C	-	109
Molecular weight, g/mol	-	94.2
Density, kg/m ³ (at 20°C)	-	1.0625

4.2 Reliability requirements

The manufacturer guarantees the quality conformance of the product to the requirements of CAS No 624-92-0

4.3 Requirements for labeling

The packing must be labeled following the given type of goods and labeling requirements. Consumer packing should be provided with a paper or self-adhesive labels made by typographically or marking with a stencil or stamp. Packing labeling must be resistant to water, organic liquids, oil products, mechanical or climatic factors, and be preserved during the storage and transportation period of the liquid. The content of the marking on the consumer packing must indicate:

- product name;
- name of the country of manufacture;
- name of the manufacturer;
- manufacturer or seller legal address;
- designation of the goods, the scope of application; manufacturer and/or seller address;
- manufacturer trademark (if available);
- date of manufacture (month and year);
- shelf life;
- designation of GOST (TC)

4.4 Requirements to size and packing

The goods must be shipped in 200-liter barrels according to the manufacturer's regulatory technical documentation.

Other options and package sizes are subject to additional approval by the Customer to their acceptability.

The goods should be packed in the manufacturer standard export package (sealed, tight, and duly packaged) to ensure its full safety from all kinds of damage during long-term storage and transportation of products, taking into account several overloads in transit.

Packing should ensure to preserve goods during transportation, handling, and movement of goods to the place of their installation.

5. REQUIREMENTS TO RULES FOR DELIVERY AND ACCEPTANCE

5.1 Order of delivery and acceptance

The goods should be accepted after incoming inspection and drawing up a report following the contract.

The Customer accepts the goods according to the quantity, quality, complete of the lot, and the external signs of the safety of the goods (mechanical damage, visible deformation, and other similar damage) following the transport and enclosed documents, the manufacturer's quality certificates.

Being parties agree that the visual inspection of the goods carried out by the Customer representative must be absolute and final for the parties to determine the conformity according to quantity, complete and external signs of goods safety during transportation.

At receiving the goods from the carrier, the Customer (consignee) should check the conformity of the goods with the information specified in the contract, specifications, or additional agreements to it, as well as in transport, enclosed documents, and the manufacturer quality certificates.

In case receiving the goods from the carrier, if a non-conformity of the goods according to quality/quantity is determined, the Customer (consignee) has to stop receiving the goods. Take measures to ensure the safety of the goods and prevent mixing with other uniform goods as well as notify the Seller about this in writing within 5 (five) working days from the date of finding the shortage.

The Seller is obliged to send the Customer (consignee), no later than 10 (ten) working days from the date of receipt of the notification, a response about the participation of his representative in the further acceptance of the goods. The Seller's representative must participate in the acceptance of the goods within a reasonable time, not exceeding 20 (twenty) calendar days from the date of receipt of the notification.

If Seller refuses to participate in the receipt of goods or fails to respond to the notification or his representative fails to appear within the date specified in the contract, the Buyer has the right to carry out further receipt of goods according to the quality/quantity with the participation of Board of trade's representative or an independent expert organization to draw up report following the contract.

The following information must be indicated in the acceptance document of the goods:

- the name of the Customer (consignee) of the goods;
- number and date of drawing up the report, place of acceptance of goods, start and end of acceptance of goods;
- surnames and initials of the persons participating in the acceptance of the goods, their positions, information about the documents confirming the persons' authority to participate in the acceptance of the goods, their details;
- names and addresses of the manufacturer and the Seller;
- the date and number of the notification of the call to the Seller's representative;
- detected non-conformity of the goods, its nature;
- indication to the contract number and specification;

- name and labeling of goods according to the shipping documents for the corresponding lot of goods;
- number of pieces and weight of metal products according to shipping documents;
- the state of the container (packing);
- weight of the identified shortage for each place;
- number of the accompanying document and quality certificate;
- size, steel grade, lot number, presence of a label;
- conclusion on the nature of the identified defects in the goods and the reason for their origination.

All persons involved in the acceptance of the goods must sign the report.

The following information should be pointed out in the acceptance document of the goods:

- the name of the Customer (consignee) of the goods;
- number and date of drawing up the report, place of acceptance of goods, start and end of acceptance of goods;
- surname, initials and position of the persons participating in the receiving of goods, document information confirming the persons' authority to participate in the receiving of goods, their details;
- names and addresses of the manufacturer and the Seller;
- the date and number of the notification of the call to the Seller representative;
- detected non-conformity of the goods, its nature;
- an indication of the contract number and specification;
- name and labeling of goods according to the shipping documents for a corresponding lot of the goods;
- number of pieces and weight of metal products according to shipping documents;
- the state of the container (packing);
- the weight of the identified shortage for each place;
- number of the enclosed papers and quality certificate;
- size, steel grade, lot number, presence of a label;
- Conclusion on the nature of the identified defects in the goods and the reason for their origination.

All persons involved in the acceptance of the goods must sign the report.

5.2 Requirements for transfer of technical and other documents to the Customer at goods supply

Each participating company in the contestant should take into account the inclusion of the technical offer the following information:

- certificate of conformance;
- international certificates ISO-9001, ISO-14001, ISO - 45001;
- certificates of international, recognized laboratories and test centers;
- Seller's invoice with a description of the goods, indicating the quantity, unit price, and total amount;
- a bill of lading issued in the name of Consignee with a stamp of dispatch-station, and the destination, Customer name, the number and date of signing of the existing contract;
- certificate of origin of the country of the goods indicating the number and date of the invoice;
- packing list;
- certificate of quality of the goods issued by the manufacturer;
- safety data sheet

5.3 Requirements for insurance of goods

The goods must be insured following the DAP terms of delivery

6. TRANSPORTATION REQUIREMENTS

The goods should be shipped in the manufacturer standard export barrel or container (sealed, tight, and duly packaged) ensuring its full safety from any kind of

damage during long-term storage and transportation of products, taking into account several overloads in transit.

7. REQUIREMENTS FOR STORAGE

Storage of goods must be carried out following the manufacturer's regulatory technical documentation.

8. REQUIREMENTS FOR SCOPE AND/OR GUARANTEE PERIOD

The Supplier must provide a document on the manufacturer's letterhead, which specifies the conditions for fulfilling the guarantee.

The supplier provides a quality guarantee for the goods following the manufacturer's warranty. The guarantee period must be at least 12 months from the date of setting the goods into operation or 18 months from the date of receipt of the goods at the warehouse of the Shurtan gas chemical complex LLC.

If the Supplier supplied goods which did not comply with the terms of the contract, the requirements of the regulatory and technical documentation and the quality of goods is not by an appropriate quality document, the Supplier is responsible for replacing the goods with adequate quality according to the contract within 14 (fourteen) days from receipt of the claim or within seven days from the date of the Customer's written request to return the means paid for low-quality products.

9. ENVIRONMENTAL AND HEALTH REQUIREMENTS

Under the current laws and regulations of the Republic of Uzbekistan

10. SAFETY REQUIREMENTS

The goods should meet the safety requirements established by the law of the Republic of Uzbekistan during storage, transportation and operation.

General requirements for safety during operation of the plant should be given in special sections of the operation manual.

11. REQUIREMENTS FOR QUALITY

The goods must be of high quality and meet the requirements of the intended use, having the necessary consumer properties and specifications, characteristics of environmental and industrial safety. A quality certificate issued by the manufacturer must confirm the quality of the goods.

12. REQUIREMENTS FOR QUANTITY, EQUIPMENT, PLACE AND TIME (PERIODICITY) OF DELIVERY

The total quantity of goods required is 51.41 tons.

The delivery of goods should be carried out in full.

The delivery date is determined at the time of signing the contract. The delivery date can be changed per the actual production rates and, therefore, the delivery date must be agreed with the Customer and delivered on a precisely specified date.

The maximum delivery time is 45 days after the order is placed by the Customer or from the date of payment for the goods in the appropriate account.

Term of payment - 100% letter of credit.

Railway wagon shipping: DAP - railway station Kengsoy (station code - 732602), joint stock company "Uzbekistan Railways"

Truck Delivery: DAP – 180300, Shurtan settlement, Guzar district, Kashkadarya region, the Republic of Uzbekistan

Container Shipping: DAP- railway station Kengsoy (station code - 732602), joint stock company "Uzbekistan Railways"

13. REQUIREMENT FOR THE FORM OF SUBMITTED INFORMATION

The submitted technical proposal must:

- have a copy in electronic media (CD/DVDs or USB data carrier);
- Regardless of the original language, submitted documents should be duplicated in Uzbek, Russian, and/or English.

14. LIST OF ACCEPTED ABBREVIATIONS

No.	Abbreviation	Key to Abbreviations
1	TA	Technical assignment
2	RTD	Regulatory and technical documentation
3	GOST	State standard
4	DAP	Delivery at point of destination